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ABSTRACT

Pacific Resources for Education and Learning (PREL) works with 10 American-affiliated Pacific entities: American Samoa, the Commonwealth of Northern Mariana Islands, the Federated States of Micronesia (Chuuk, Kosrae, Pohnpei, Yap), Guam, Hawaii, the Republic of the Marshall Islands, and the Republic of Palau. The survey raises awareness of the risk factors affecting educators in the Pacific entities and provides insight necessary to redress the concerns of students, policymakers, and educators around the region. The study identified risk factors affecting educators in the Republic of Palau. These risk factors might also play a role in teachers' and school administrators' absenteeism, attrition, and stress burnout. In the Republic of Palau, 159 teacher and 20 administrator surveys were returned. Absenteeism for both teachers and administrators is higher than in many of the other Pacific entities. The main reasons cited were personal illness, funerals, and a sick family member. Approximately 27 percent of teachers surveyed stated they may leave within two years due to low salaries, health problems, retirement, poor relationships with parents, students' bad attitudes, and pressure from the community. The data collected in the study reveal the extent of these problems and shed some light on possible contributing factors. Appendixes contain teacher and administrator questionnaires. (Contains 17 references.) (DFR)

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ED 442 188

RETENTION AND ATTRITION OF PACIFIC SCHOOL TEACHERS AND ADMINISTRATORS (RAPSTA) STUDY

Republic of Palau

Research and Development Cadre

August 1998

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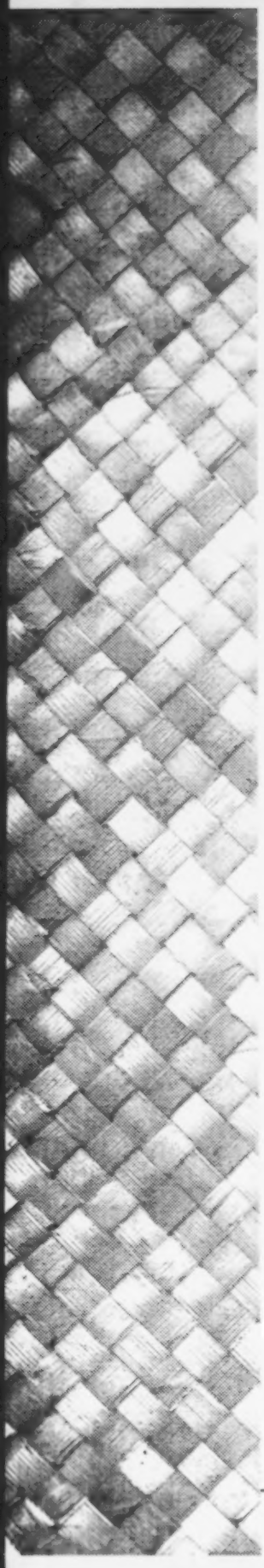

Retention and Attrition of Pacific School Teachers and Administrators (RAPSTA) Study

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Preface

This study represents one step towards solving problems that plague many schools throughout the Pacific: high rates of absenteeism, attrition, and stress/burnout among teachers and school administrators. The data collected in this study reveal the extent of these problems and shed some light on possible contributing factors.

R&D Cadre members will present this report to teachers and school administrators in each Pacific entity, soliciting feedback and suggestions that we anticipate will lead to the formulation of specific, entity-based solutions to these concerns.

I. Introduction

The mission of Pacific Resources for Education and Learning (PREL) is to *assist education, government, community agencies, businesses, and labor groups to maintain cultural literacy and improve the quality of life by helping to strengthen educational programs and processes for children, youth, and adults* (Pacific Resources for Education and Learning, 1996).

In order to carry out this mission, PREL has made a commitment to work in close partnership with the ten American-affiliated Pacific entities: American Samoa, the Commonwealth of the Northern Mariana Islands, the Federated States of Micronesia (Chuuk, Kosrae, Pohnpei, Yap), Guam, Hawai'i, the Republic of the Marshall Islands, and the Republic of Palau. As a result of their very different forms of political affiliation with the United States, these ten states are referred to as *entities* in PREL's terminology.

As part of this work, PREL's Research and Development (R&D) Cadre has undertaken several studies in order to describe the educational experiences and opportunities of Pacific Islanders. The R&D Cadre is a group of Pacific educators consisting of one member from each department or ministry of education in the ten entities comprising PREL's service region, and one member representing the National Department of Education, Federated States of Micronesia.

One of the studies conducted, *A Study of Risk Factors Among High School Students in the Pacific Region* (Pacific Region Educational Laboratory R&D Cadre, 1995), sparked interest in examining risk factors associated with adults working in Pacific schools. Open-ended questions answered by students participating in the 1995 study indicated that these students were concerned about teacher absenteeism. In entities where no substitute teacher pool is available, students' educational opportunities may be seriously compromised due to high rates of teacher absenteeism.

Frequent teacher absenteeism in the Pacific may have a strong impact on student achievement. For various reasons, such as lack of funds or human resources, substitute-teacher programs are lacking in many entities. Students might come to school, but a teacher might not be available to teach them. Not only does this affect access to educational opportunities and contribute to low student achievement, it could also have an effect on attendance counts, which can adversely affect school funding, thus perpetuating a negative cycle.

Factors related to teacher and school administrator absenteeism have been identified in the research literature. However, research on this topic is lacking for the Pacific region. As a result, the PREL Board of Directors recommended follow-up research detailing risk factors for teachers and school administrators. This recommendation was supported by the R&D Cadre members, who expressed interest in examining these risk factors within their respective entities. In addition, policy makers and program managers in the ten entities have expressed concern about the impact of teacher and administrator absenteeism, as well as attrition and stress/burnout, on student achievement.

In response to these concerns, a study was designed to describe the factors that affect Pacific Island educators and make them "at risk" for absenteeism, attrition, and stress/burnout. Merriam-Webster's Collegiate Dictionary (1997) defines stress as "a physical, chemical, or emotional factor that causes bodily and mental tension." Research indicates that excessive stress might cause illness.

A condition termed "burnout" (DeRobbio, 1995) could also result from difficult and stressful work conditions. Merriam-Webster's Collegiate Dictionary defines this condition as "exhaustion of physical or emotional strength."

This study was guided by the following research questions:

1) What are the risk factors that affect Pacific school teachers and administrators?

2) What risk factors lead to absenteeism, attrition, and stress/burnout?

Of particular interest to the Republic of Palau is understanding the reasons that prompt teachers to leave the teaching profession. Also of interest are the factors that lead to absenteeism and the reasons why some teachers do not perform up to their potential.

This study was designed to identify risk factors affecting educators in the Republic of Palau and other Pacific entities served by PREL. As part of the process, a literature review of teacher risk factors was performed and published (Hammond & Onikama, 1997). This review concluded that:

1) Factors associated with teacher absenteeism–such as child care, transportation difficulties, illness, and cultural demands–tend to be immediate obligations or concerns (Scott & Wimbush, 1991).

2) Factors associated with attrition–such as low salaries, poor benefits, and work overload–are chronic or habitual concerns (Wari, 1993).

3) Factors associated with stress/burnout–such as student misbehavior (Holmes & Rahe, 1967; Pelletier, 1977; American Psychiatric Association, 1994); anger, anxiety, or depression (DeRobbio & Iwanicki, 1996); and school reform (Farber & Ascher, 1992)–are daily nuisances.

These risk factors might also play a role in teacher and school administrator absenteeism, attrition, and stress/burnout in the Pacific region with its unique educational, cultural, and geographical contexts. Pacific schools have adopted the American system of education. However, this transplanted system exists parallel to a Pacific orientation and heritage influenced by Polynesian and Micronesian traditional values, cultural events, and environmental circumstances. Some examples include the following, which were taken from a review of the literature and interviews with Pacific educators:

Cultural events. In some island communities, traditional feasts and funerals are important parts of village life. For instance, if a feast falls on a school day, it is likely that the teacher (who may hold a traditional title) will not go to school, but will prepare for the event. Family relationships with their attendant obligations are highly valued and honored among Pacific Islanders and may account for higher absenteeism rates among Pacific educators.

Family and village social roles. In many island communities, family and village relationships provide a social context that may overlook frequent absenteeism. For example, a teacher may be a member of a large and influential family, many of whom may be employed in the public school system. That teacher's absenteeism may, therefore, be overlooked. Although the traditional American ethic views such favoritism as inappropriate, it may be tolerated within the context of many Pacific lifestyles.

Sanctioned time off. Habitual time off may be tolerated in some entities. For example, a condition referred to as "Monday sickness," occurs when male teachers, especially those who are young and single, are absent from school after a weekend of excess. Their absence is tolerated as a social and developmental pattern related to their youth.

Environmental factors. Unique weather patterns such as hurricanes and excessive rain in the Pacific region may have an effect on absenteeism. Typhoon Paka, for example, recently decimated Guam, leaving it without electricity and forcing the closure of schools. In Hawai'i, giant winter swells may close roadways and limit access to schools. Flooding in low-lying islands and atolls can cause many teachers to miss school for one or more days.

The main purpose of this study was to raise awareness of risk factors affecting educators in the Pacific entities and to provide insight necessary to address the concerns of students, policy makers, and educators throughout the region. Hopefully, the results will stimulate interest and follow-up action as it relates to local professional development opportunities for Pacific educators.

Because of the region's remote geographical location and its distance from educator training programs, as well as the high costs associated with traveling to institutions of higher education, local departments of education must share responsibility for the development of programs or interventions geared towards maintaining the educational work force. Preventing the negative outcomes associated with risk factors can help educators to become more effective while working with their students and thus promote positive student outcomes. The study will also contribute to the fund of knowledge on absenteeism, attrition, and stress/burnout among educators generally, and Pacific educators specifically, thereby contributing to cross-cultural theory building. This, in turn, may assist the development of models and tools for promoting retention and reducing attrition and stress/burnout among educators in Palau and elsewhere.

II. Methods

The *Retention and Attrition of Pacific School Teachers and Administrators* (RAPSTA) study was conducted in ten American-affiliated Pacific entities during the spring of 1997. It was designed and conducted by PREL's R&D Cadre and its members' local support teams. PREL staff provided technical assistance.

R&D Cadre members participated in three PREL-sponsored seminars in which they designed the study, developed data collection instruments, and analyzed the data. Cadre members then shared the collected information with their local R&D support teams.

Subjects

The unit of analysis for the RAPSTA study is the elementary and secondary-level teacher and school administrator. Two hundred and sixteen teacher surveys were distributed, and 159 completed surveys were returned, resulting in a 74 percent response rate. Twenty-one school administrator surveys were distributed, and 20 completed surveys were returned, resulting in a 95 percent response rate. Tables 1 and 2 summarize demographic characteristics of the subjects.

Table 1

Characteristics of RAPSTA Teacher Sample from the Republic of Palau

Demographic Characteristics		Number	Percentage*
Gender	Female	95	59.7
	Male	44	27.7
	No Response	20	12.6
	TOTAL	**159**	**100.0**
Ethnicity	Palauan	143	89.9
	Others	9	5.7
	No Response	7	4.4
	TOTAL	**159**	**100.0**
Age	20-29	10	6.3
	30-39	31	19.5
	40-49	74	46.5
	50+	39	24.5
	No Response	5	3.1
	TOTAL	**159**	**100.0**
Marital Status	Never Married	28	17.6
	Married	98	61.6
	Separated	9	5.7
	Divorced	6	3.8
	Widowed	9	5.7
	No Response	9	5.7
	TOTAL	**159**	**100.0**
Education	HS Graduate	26	16.4
	Associate Degree	44	27.7
	Bachelor's Degree	70	44.0
	Master's Degree	6	3.8
	Others	7	4.4
	No Response	6	3.8
	TOTAL	**159**	**100.0**
Experience	1 - 4 Years	25	15.7
	5 - 10 Years	25	15.7
	11 - 14 Years	10	6.3
	15 - 20 Years	14	8.8
	20+ Years	75	47.2
	No Response	10	6.3
	TOTAL	**159**	**100.0**
Salary	< 4,000	2	1.3
	4,000 - 6,999	6	3.8
	7,000 - 9,999	28	17.6
	10,000 - 12,999	37	23.3
	13,000 - 15,999	57	35.8
	16,000+	6	3.8
	No Response	23	14.5
	TOTAL	**159**	**100.0**

* Percentages might not sum to exactly 100 due to rounding.

Table 2

Characteristics of RAPSTA School Administrator Sample from the Republic of Palau

Demographic Characteristics		Number	Percentage*
Gender	Female	6	30.0
	Male	13	65.0
	No Response	1	5.0
	TOTAL	**20**	**100.0**
Ethnicity	Palauan	18	90.0
	No Response	2	10.0
	TOTAL	**20**	**100.0**
Age	25-29	2	10.0
	35-39	1	5.0
	45-49	3	15.0
	50+	13	65.0
	No Response	1	5.0
	TOTAL	**20**	**100.0**
Marital Status	Never Married	4	20.0
	Married	13	65.0
	Divorced	1	5.0
	Widowed	1	5.0
	No Response	1	5.0
	TOTAL	**20**	**100.0**
Education	HS Graduate	1	5.0
	Associate Degree	4	20.0
	Bachelor's Degree	10	50.0
	Master's Degree	4	20.0
	Others	1	5.0
	No Response	0	0.0
	TOTAL	**20**	**100.0**
Experience	1 - 4 Years	3	15.0
	5 - 10 Years	0	0.0
	11 - 14 Years	3	15.0
	15 - 20 Years	2	10.0
	20+ Years	12	60.0
	No Response	0	0.0
	TOTAL	**20**	**100.0**
Salary	< 4,000	1	5.0
	10,000 - 12,999	1	5.0
	13,000 - 15,999	6	30.0
	16,000 +	9	45.0
	No Response	3	15.0
	TOTAL	**20**	**100.0**

* Percentages might not sum to exactly 100 due to rounding.

The majority of teachers are married Palauan females, over 40 years of age, with either an associate (27.7%) or bachelor's (44.0%) degree and more than 15 years of experience.

Most of the school administrators are married Palauan males, over 50 years of age, with a bachelor's degree (50%) and more than 20 years of experience.

Sampling

To ensure a high response rate for the Republic of Palau, the R&D Cadre decided to survey teachers and school administrators from all 21 schools. However, due to environmental factors and limited time, three remote schools and one central school were not included in the Palau sample.

Instrumentation

Two similar data collection instruments were developed, one for teachers and another for school administrators (see Appendices). Each is a five-page survey with three sections: Section 1 consists of 2-1/2 pages of forced-choice and short-answer, self-reported background information as well as absenteeism data for the school year in which the survey was administered. Section 2 is a single-page rating sheet outlining stress/burnout feelings; it was adapted from the Maslach Burnout Inventory–Educators Survey and Human Services Survey (Maslach, Jackson, & Leiter, 1996). Section 3 is also a single-page rating sheet detailing reasons why an educator might quit teaching or working as a school administrator. Individuals did not identify themselves by name, and all responses were kept confidential.

Section 1 - Demographic Characteristics and Absenteeism Data

Section 1 gathered relevant personal information to be used in examining teacher/school administrator retention and attrition. Questions asked about gender, age, ethnicity, marital status, educational attainment, salary, experience, and current teaching load. Additional data on the number of instructional days away from school during the 1996-1997 school year (SY) and the reasons for those absences were collected. For example, participants were asked to write down the number of days they were away from school in SY 1996-1997 for reasons such as funerals, birthdays, storms, heavy rains, or floods.

Section 2 - Stress and Burnout Ratings

The purpose of Section 2, as a means of measuring employee stress/burnout, was to discover how respondents view their jobs and the people with whom they work closely. The Maslach Burnout Inventory (MBI) is recognized as the leading measure of burnout. "It is the best known and most widely used questionnaire for the assessment of individual occupational burnout among human service workers and others whose work involves intense interaction with people" (Offerman, 1986, p. 419). The MBI is a 22-item, self-report inventory of three subscales, which were developed to measure dimensions that the authors felt best defined burnout. These subscales include Low Personal Accomplishment (8 items), Emotional Exhaustion (9 items), and Depersonalization (5 items).

- Low Personal Accomplishment results when teachers evaluate themselves negatively, particularly in relation to their work with students (DeRobbio, 1995). Those who report low personal accomplishment may disagree with the statement, "I have accomplished many worthwhile things in teaching" (Maslach, Jackson, & Schwab, 1986, p. 2).

- Emotional Exhaustion "is the tired and fatigued feeling that develops as emotional energies are drained. When these feelings become chronic, educators find they can no longer give of themselves to students as they once could" (Maslach, Jackson, & Leiter, 1996, p. 28). They may agree with the statement, "I feel I'm working too hard on my job" (Maslach & Jackson, 1986, p. 2).

- Depersonalization results when educators "no longer have positive feelings about their students" (Maslach, Jackson, & Leiter, 1996, p. 28). They may develop negative or cynical attitudes and feelings about them and may agree with the statement, "I don't really

care what happens to some of my students" (Maslach, Jackson, & Schwab, 1986, p. 2).

Respondents rated each of the 22 items in terms of the frequency that these feelings occur, ranging from "never" (0) to "every day" (6).

To make the survey instrument more appropriate to the Pacific region, the MBI Educators Survey (Maslach, Jackson, & Schwab, 1986) and the MBI Human Services Survey (Maslach & Jackson, 1986) were adapted, with permission from the publisher. Seven of the 22 items were modified to clarify vocabulary and idiomatic phrases. Since many of the respondents in the Pacific entities speak English as a second or foreign language, words such as "exhilarated" and "callous," or expressions such as "at the end of my rope" were stated in more understandable terms. These modifications were made by two Pacific-entity educators who are familiar with the English proficiency of teachers in the region. It was determined that these language-clarifying changes would not significantly alter the instrument's technical qualities. The MBI has been validated for use in countries around the world in a number of translations (Maslach, Jackson, & Leiter, 1996, p. 1).

Section 3 - Reasons for Leaving the Profession

The purpose of Section 3 was to understand why teachers and school administrators leave their jobs. Respondents were asked to rate each of 19 statements on a four-point Likert-type scale from "strongly disagree" to "strongly agree." For example, teachers rated their level of agreement with two statements: "I might leave my current teaching job for a better teaching position within the next two years" and "I might leave teaching altogether within the next two years." They were also asked to rate their agreement by noting reasons why they might quit teaching. Reasons for leaving the profession, as listed on the survey, were selected because of their prevalence in attrition literature. Additional reasons were included on the basis of their perceived importance by educators in the Pacific region.

Procedures

The R&D Cadre members coordinated the survey administration. They planned meetings to inform school staff about the RAPSTA study, its purpose, the rationale used for school selection, and the importance of serious responses to the survey. In these meetings, schedules for data collection were developed and confirmed. Plans for necessary logistical support and accommodations were also communicated to the staff.

At two elementary schools and one high school in Koror, surveys were administered in group settings by the Cadre member. For elementary schools outside of Koror, principals administered the survey to their teachers and were responsible for data collection. The Cadre member trained principals in this process at the time of the administrator survey.

Data were collected from April 1997 to June 1997, giving adequate time for personnel to complete the surveys and time for PREL staff to follow up on the status of returned surveys. Surveys were collected after being completed by each school's teachers and administrators. The Cadre member collected the completed surveys, then forwarded them to PREL in Honolulu for data entry and preliminary analysis.

An important part of the procedure was the administration of the survey instruments. During group administration, those present filled out the survey and submitted it to the Cadre member; at locations where the principals administered the survey, completed surveys were placed in an envelope and turned over to the Cadre member.

III. Findings

This section features general findings on absenteeism, attrition, and stress/burnout among teachers and school administrators in the Republic of Palau. It highlights findings in three areas: (1) reasons for school absences, (2) possible reasons for attrition in the education profession, and (3) comparisons of Potential Leavers with Non-Leavers.

Reasons for School Absences

During the 1996-1997 school year, teachers in the Republic of Palau sample were away from work, on average, for a total of 10.60 days. School administrators in the sample were away from work, on average, for a total of 15.30 days. Table 3 provides reasons why teachers were away from work and frequency of absence. Table 4 provides reasons why school administrators were away from work and frequency of absence.

Table 3

Reasons Why Teachers Are Away from School in the Republic of Palau

Rank	Reason	Average # of Days Away
1	Personal illness	3.60
2	Funerals	1.69
3	Family member sick	1.03
4	Meetings and workshops	0.80
5	Educational leave	0.60
6	Family responsibilities	0.57
7	Vacation	0.43
8	Administrative leave	0.40
9	Child care	0.38
10	Maternity leave	0.26
11	Birthdays	0.19
12	Stress	0.13
13	Training leave	0.09
14	Church activities	0.08
14	Other	0.08
15	Working conditions	0.06
15	Relationship with supervisors	0.06
16	Transportation problem	0.04
16	Lack of instructional materials	0.04
17	Community responsibilities	0.03
18	Jury duty	0.02
19	Relationship with co-workers	0.01
19	Storm, heavy rain, flood, etc.	0.01
20	Military training	0.00
20	Paternity leave	0.00
20	Suspension	0.00
20	Weddings	0.00
	TOTAL	10.60

In the Republic of Palau, personal illness is the leading cause of teacher absence from school, with 3.60 days away. The next highest reason is funerals, with an average of 1.69 days; followed by a sick family member, with an average of 1.03 days.

Table 4

Reasons Why School Administrators Are Away from School in the Republic of Palau

Rank	Reason	Average # of Days Away
1	Meetings and workshops	4.10
2	Funerals	2.65
3	Family member sick	2.45
4	Personal illness	1.90
5	Vacation	1.25
6	Administrative leave	0.85
7	Training leave	0.70
8	Family responsibilities	0.65
9	Transportation problem	0.25
10	Child care	0.20
11	Birthdays	0.10
11	Community responsibilities	0.10
11	Stress	0.10
12	Church activities	0.00
12	Educational leave	0.00
12	Jury duty	0.00
12	Lack of instructional materials	0.00
12	Maternity leave	0.00
12	Military training	0.00
12	Other	0.00
12	Paternity leave	0.00
12	Relationship with co-workers	0.00
12	Relationship with supervisors	0.00
12	Storm, heavy rain, flood, etc.	0.00
12	Suspension	0.00
12	Weddings	0.00
12	Working conditions	0.00
	TOTAL	15.30

Republic of Palau school administrators are most frequently away from school due to meetings and workshops, with an average of 4.10 days. This is followed by funerals, with an average of 2.65 days, and a sick family member, with an average of 2.45 days.

Reasons for Attrition in the Education Profession

Respondents rated 17 reasons for leaving teaching or administration on a four-point Likert-type scale from "strongly agree" to "strongly disagree."

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In order to judge the technical significance of correlations between responses on each item, this ordinal scale was collapsed into two categories: "strongly disagree" and "disagree" were counted as DISAGREE; "strongly agree" and "agree" were counted as AGREE. Percentage of agreement was then calculated for each reason.

In the Republic of Palau, 27.04 percent (N=43) of the surveyed teachers agreed that they might leave teaching within the next two years. For purposes of analysis, two categories were created: Potential Leavers and Non-Leavers. Non-Leavers are those who disagreed with the statement, "I might leave teaching within the next two years." Table 5 ranks the reasons teachers gave for leaving teaching, comparing Potential Leavers with Non-Leavers.

Personal health problems, low salaries, and retirement are ranked as the top three reasons for leaving teaching in the Republic of Palau, by both teachers who are planning to leave as well as those who are not.

A statistical test (Chi^2) was performed to find out if the response patterns of Potential Leavers and Non-Leavers are different for each possible reason for leaving teaching. Potential Leavers are more likely to leave for the following reasons: poor relationships with parents, students' bad attitudes, too many disagreements about how to teach, not enough school supplies and materials, and pressure from the community.

In the Republic of Palau, 10 percent (N=2) of school administrators agreed that they might leave educational administration within the next two years (Potential Leavers). Table 6 ranks the reasons school administrators gave for leaving the school administration field, and compares Potential Leavers with Non-Leavers. Non-Leavers are those who disagreed with the statement, "I might leave educational administration altogether within the next two years." There are many reasons why Potential Leavers might leave school administration, and these reasons differentiate them from Non-Leavers. For each possible reason for leaving school administration, a statistical test (Fisher Exact Test) was performed to determine if the response patterns of Potential Leavers and Non-Leavers are different. Following Cochran (1954), the Fisher Exact Test was used because of the small sample size (N=20). No statistical differences were found between the two groups.

Table 5

Reasons for Leaving Teaching in the Republic of Palau

If I quit teaching, it would be because of ...	Potential Leavers		Non-Leavers	
	% Agree	Rank	% Agree	Rank
poor working conditions	39.5	13	45.0	9
no support from school administration	53.9	9	60.5	3
no support from central office	56.8	6	56.8	5
too much stress	60.5	4	48.2	8
poor relationships with parents **	55.0	8	29.6	12
students' bad attitudes *	46.2	11	23.5	14
my lack of control over school policies	39.5	13	13.5	16
poor benefits	60.0	5	53.2	6
personal health problems	64.1	3	67.1	2
too many disagreements about how to teach *	48.7	10	27.5	13
not enough school materials and supplies *	56.1	7	35.8	10
low salaries	69.2	2	58.5	4
too many responsibilities	40.0	12	23.5	14
pressure from the community *	48.7	10	30.0	11
retirement	70.0	1	74.1	1
promotion	64.1	3	50.6	7
poor relationship with other teachers	34.2	14	22.2	15

* $p \leq .05$
** $p \leq .01$

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Table 6

Reasons for Leaving Administration in the Republic of Palau

If I quit being a school administrator, it would be because of ...	Potential Leavers		Non-Leavers	
	% Agree	Rank	% Agree	Rank
poor working conditions	0.0	3	46.7	6
no support from school staff	0.0	3	26.7	9
no support from central office administration	100.0	1	60.0	4
too much stress	0.0	3	53.3	5
poor relationships with parents	0.0	3	33.3	8
students' bad attitudes	0.0	3	13.3	12
my lack of control over school policies	100.0	1	33.3	8
poor benefits	100.0	1	46.7	6
personal health problems	100.0	1	88.2	1
too many disagreements about how to run my school	100.0	1	25.0	10
not enough school materials and supplies	0.0	3	40.0	7
low salaries	100.0	1	60.0	4
too many responsibilities	0.0	3	21.4	11
pressure from the community	100.0	1	53.3	5
retirement	50.0	2	80.0	2
promotion	100.0	1	64.3	3
poor relationship with teachers	100.0	1	33.3	8
poor relationship with staff	100.0	1	33.3	8
political reasons	100.0	1	40.0	7

Comparison of Potential Leavers and Non-Leavers

The relationship between stress, burnout, and reported desire to leave education was examined in order to provide assistance to program managers and staff developers who work to improve school climate.

1. A *high degree of burnout* is reflected in high scores on the Emotional Exhaustion and Depersonalization subscales, and in low scores on the Personal Accomplishment subscale.

2. A *medium degree of burnout* is reflected in moderate scores on the three subscales.

3. A *low degree of burnout* is reflected in low scores on the Emotional Exhaustion and Depersonalization subscales, and in high scores on the Personal Accomplishment subscale.

Table 7 reflects a comparison of scores from the norm sample with mean scores for all teacher and school administrator respondents. Republic of Palau teachers experience a higher sense of personal accomplishment than both school administrators and the norm sample. In addition, they are less emotionally exhausted and have a lower sense of depersonalization than the norm sample. They display a high degree of engagement in their work.

School administrators, on the other hand, experience slightly less personal accomplishment than the norm sample. However, they are less emotionally exhausted and have a lower sense of depersonalization than both the norm sample and teachers. Therefore, in the Republic of Palau, the majority of educators do not appear to experience occupational burnout.

Table 7

MBI Subscale Scores for Republic of Palau Teachers and School Administrators Compared to the Norm Sample

MBI Subscale	Sample Size	Mean Score
Personal Accomplishment (PA)		
Republic of Palau Teachers	159	35.3
Republic of Palau School Administrators	20	33.2
Norm Sample	4,163	33.5
Emotional Exhaustion (EE)		
Republic of Palau Teachers	159	16.4
Republic of Palau School Administrators	20	14.4
Norm Sample	4,163	21.3
Depersonalization (DP)		
Republic of Palau Teachers	159	5.5
Republic of Palau School Administrators	20	3.6
Norm Sample	4,163	11.0

In order to analyze how Potential Leavers compare to Non-Leavers on the MBI subscales, scores were classified into High, Moderate, and Low categories. To make interpretation easier, the suggested cut-off scores used by MBI authors to classify low and high Personal Accomplishment were reversed. That is, a high score in this report means a high sense of personal accomplishment. According to the authors (Maslach, Jackson, & Leiter, 1996), personal accomplishment is a reverse scale, which means high scores denote a high *lack* of personal accomplishment. We found this to be confusing and, thus, made these changes for our reporting purposes. The following cut-off scores were used:

Table 8

Cut-off Scores for MBI Subscale Categories

MBI Subscale	High	Moderate	Low
Personal Accomplishment	≥ 37	31-36	≤ 30
Emotional Exhaustion	≥ 27	17-26	≤ 16
Depersonalization	≥ 14	9-13	≤ 8

Figures 1-6 display differences between Potential Leavers and Non-Leavers among teachers (Figures 1-3) and school administrators (Figures 4-6) on the three MBI subscales. Republic of Palau teachers who agreed that they might leave within the next two years experience less personal accomplishment than Non-Leavers, are more emotionally exhausted, and feel more depersonalized than the Non-Leavers. Thus, teachers in the Republic of Palau who might leave teaching within the next two years appear to experience all aspects of occupational burnout. In contrast, school administrators who agreed that they might leave within the next two years experience more personal accomplishment than Non-Leavers.

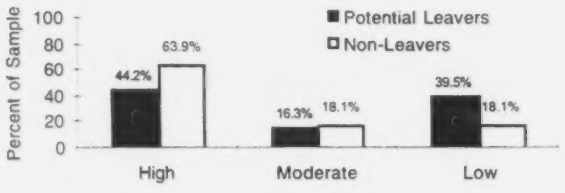

Figure 1. **Personal accomplishment among teachers in the Republic of Palau**

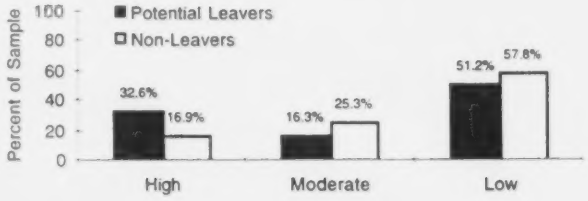

Figure 2. **Emotional exhaustion among teachers in the Republic of Palau**

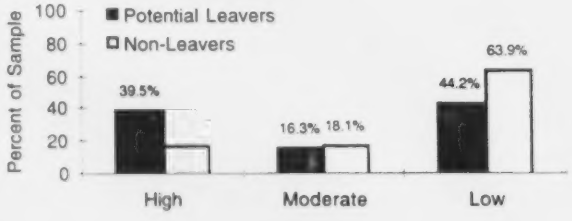

Figure 3. **Depersonalization among teachers in the Republic of Palau**

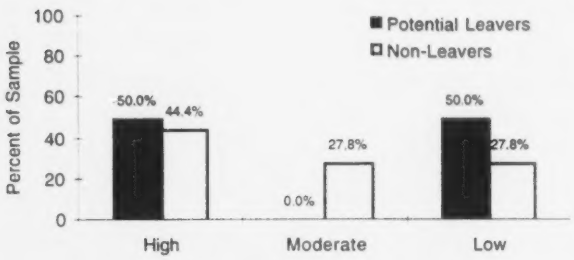

Figure 4. **Personal accomplishment among school administrators in the Republic of Palau**

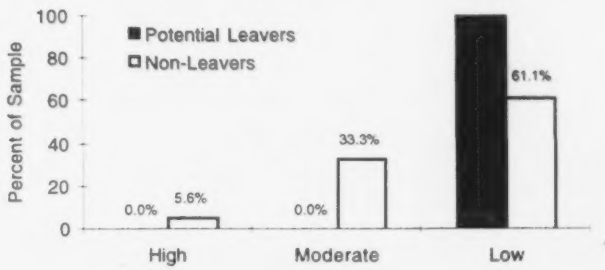

Figure 5. **Emotional exhaustion among school administrators in the Republic of Palau**

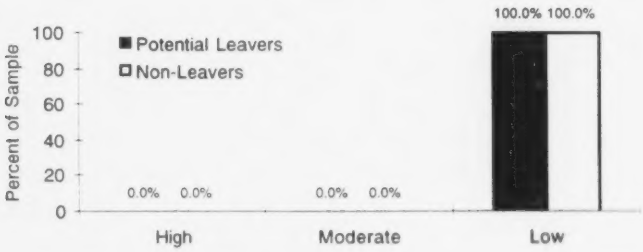

Figure 6. **Depersonalization among school administrators in the Republic of Palau**

IV. Discussion

Absenteeism

Absenteeism in the Republic of Palau is higher than in many of the other Pacific entities, with teachers averaging 10.6 days away, and school administrators averaging 15.3 days away from school. Teachers cited three main reasons for being away from school: personal illness, funeral, and a sick family member. These are factors that tend to be of immediate concern to teachers (Scott & Wimbush, 1991), and some are unavoidable events in the lives of educators in the Republic of Palau. Funerals, for example, are a cultural obligation that cannot be avoided. When relatives and in-laws die, other family members are obligated to attend the funeral. Sometimes attendance is required for a period of three to five days, resulting in an educator's absence from school.

The top three reasons why school administrators were away from school include: meetings and workshops, funerals, and a sick family member. School administrators attend quarterly meetings in addition to a number of unscheduled special meetings. Sometimes they are sent outside of Palau for conferences and workshops. Vast geographical distances and limited flight schedules might cause absences of more than a week at a time.

Attrition

Approximately 27 percent of teachers in the Republic of Palau report that, within the next few years, they might leave teaching. Their reasons include personal health problems, low salaries, and retirement. In addition, teachers who plan to leave

within the next two years are more likely to leave for the following reasons: poor relationships with parents, students' bad attitudes, too many disagreements about how to teach, not enough school materials and supplies, and pressure from the community.

Ten percent of school administrators in Palau report that they might leave within the next two years, but none of their reasons for leaving significantly differentiate them from their non-leaving peers.

Burnout

Although teachers, in general, in the Republic of Palau experience less burnout than their U.S. Mainland counterparts, those who might leave within the next two years seem to be experiencing all aspects of occupational burnout. These teachers (Potential Leavers) exhibit a lower sense of personal accomplishment, are more emotionally exhausted, and feel a stronger sense of depersonalization than their non-leaving counterparts. Thus, in the Republic of Palau, attrition and burnout appear to be related.

School administrators, in general, experience a slightly lower sense of personal accomplishment than the norm sample. However, those who may leave within the next two years experience a higher sense of personal accomplishment, extremely low levels of emotional exhaustion, and low levels of depersonalization. It appears that occupational burnout is not a problem for school administrators in the Republic of Palau and is not the reason that causes some to leave.

V. Limitations

The Challenge of Language and Culture

Conducting research across diverse linguistic and cultural groups is a challenging task. The language in which research is conducted can limit accurate interpretation of its results. Expectations regarding task importance and response candor may vary from culture to culture. Thus, results from cross-cultural studies may be difficult to interpret.

While English is the language of wider communication in all of the American-affiliated Pacific entities, respondents to the surveys in this study varied in their use and comprehension of English. For some, English might be a first language; for others, it might be a second or third language, used to a much lesser extent than the vernacular. Thus, particular vocabulary, grammatical structures, or instructions may have been problematic.

To adjust for some for these potential errors in measurement, native language/culture informants, who are members of the R&D Cadre or entity local support teams, provided the following expert assistance:

- developed and piloted questions used in the survey;
- revised potentially confusing items from the Maslach instrument;
- in many cases, administered surveys in group settings, leading respondents through each item and clarifying meanings upon request; and
- provided translations, where necessary, especially in geographically isolated outer-island settings.

Culture-specific interpretations concerning the importance of research, ways of responding, and the meanings of specific terms might all affect results. R&D Cadre members made special efforts to work with their respective departments or ministries of education and directors to ensure that teachers and school administrators took their responses to the survey seriously. In many cases, entity-wide meetings were held to explain the study, its importance, and the need for truthful data. Because the study was

designed by members of each department of education, and was intended to investigate issues of importance to the entity, some support was ensured. The study was discussed at principals' and teachers' meetings; support for administration and data collection was provided by the entity department or ministry of education.

Instrumentation

All data collected in this study came from self-report questionnaires. This method of data collection was selected because of its perceived advantages for large-scale research. Those advantages include:

- Questionnaires are relatively easy and inexpensive to administer
- Questionnaires can be designed to ensure anonymity
- Respondents answer at their own pace
- Questions are standardized

However, self-report questionnaires also have limitations–responses may not always be truthful or accurate. Some respondents might make careless errors, such as checking the wrong box or writing the incorrect number. They might purposely answer questions with incorrect information because they want to give a favorable impression or avoid potentially embarrassing admissions. Or, they might misinterpret questions and respond inaccurately.

The R&D Cadre pilot-tested the questionnaires in order to improve wording so that respondents might better interpret the meanings of questions. Additionally, directions for completing the questionnaires and administration procedures were purposefully designed to ensure anonymity. However, even with these precautions, hindsight tells us that specific changes might have improved the validity of responses. In particular, the following limitations are noted:

1. Items that required respondents to check boxes on the right were somewhat confusing. The items should have been transposed so that the boxes were on the left.
2. Questions measuring attrition could have been phrased with greater clarity. Rather than asking if the respondents *might* leave and reasons that *might* cause them to leave, perhaps asking whether or not they were *going* to leave and *why* would have provided more definitive information.
3. In order to assure respondents of anonymity and foster truthfulness in responses, surveys did not ask for individuals' names. However, they did request the names of schools. In entities where there are few schools and a limited number of teachers (e.g., one per grade level), this may not have been sufficient to guarantee anonymity, and, consequently, honesty in response.

Analysis

Non-responses to items on the questionnaires could limit the validity of some results. For example, in order to analyze differences between teachers who are Potential Leavers and Non-Leavers, only those who responded to the question "I might leave teaching within the next two years" and each of the reasons for leaving could be included in the analyses (cross-tabulations). In some instances, large portions of the sample did not respond to either the "I might leave" question or one of the reasons.

Therefore, conclusions based on such results may only be generalized on the basis of those who were willing to respond. There may be systematic differences between respondents and non-respondents. For example, if non-respondents were more likely to experience depersonalization at work and, therefore, did not care to respond to all items, then conclusions based on results in which they did not participate would under-identify this risk factor in the population.

Although standardized group administration practices included requests to respond to all items, these requests were not sufficient. Moreover, stan-

dardized administration was not always possible.

Non-responses on the Maslach Burnout Inventory were also a problem. In order to calculate each subscale score, all items that contributed to that subscale must have been answered. If a respondent left one item out, the subscale in which that item was included could not be computed. Therefore, the extent of burnout may be underrepresented.

VI. Recommendations

The recommendations provided in this section of the report are based on the general findings concerned with absenteeism, attrition, and stress/burnout among teachers and school administrators in the Republic of Palau. Findings in three areas are highlighted: (1) reasons for absences, (2) possible reasons for attrition in the education profession, and (3) comparisons of Potential Leavers and Non-Leavers.

Recommendations Regarding Findings on Absenteeism

The absenteeism rates for teachers appears to be moderately high in the Republic of Palau, with 10.58 days away. Absences for teachers and school administrators are due to a wide range of reasons that might be valid (personal illness, funerals, sick family members) but the high rate of absenteeism may be problematic. It is therefore recommended that serious attention be paid to the need to improve the attendance of educators in the Republic of Palau. Existing policies on attendance should be reviewed for appropriate action. In the absence of formal attendance policies, written policies should be developed and consistently implemented.

Recommendations Regarding Findings on Attrition

In the Republic of Palau, numerous reasons cause teachers to leave the teaching profession. These include poor relationships with parents, students' bad attitudes, too many disagreements about how to teach, not enough school supplies and materials, and pressure from the community. However, teacher employment records from Palau indicate that attrition is very low and that even transfers between schools are not frequent. This employment history seems to indicate that teachers are in for the long haul and may leave mostly because of retirement.

Similarly, attrition of school administrators does not appear to be a problem. If it becomes an issue, future research will be needed to identify reasons why school administrators choose to leave the school administration field in the Republic of Palau.

Recommendations Regarding Findings on Stress/Burnout

In the Republic of Palau, teachers and school administrators, in general, experience less burnout than their Mainland counterparts. Teachers exhibit a higher sense of personal accomplishment, are less emotionally exhausted, and experience a lesser degree of depersonalization than the norm sample. They display a high degree of engagement in their work. School administrators experience only a slightly lower sense of personal accomplishment than the norm sample.

Although occupational burnout is not a problem for school administrators in the Republic of Palau, it is a problem for teachers who feel that they might leave teaching within the next two years. These teachers (Potential Leavers) exhibit a lower sense of personal accomplishment, are more emotionally exhausted, and feel a stronger sense of depersonalization than their non-leaving counterparts. To minimize this potential attrition, it is recommended that the public school system design and implement a pro-active program that will minimize stress and burnout among teachers. Such a program might

focus on reducing the factors that lead to a low sense of personal accomplishment, emotional exhaustion, and depersonalization, where possible, as well as help personnel learn effective strategies for coping with the demands that lead to stress and burnout.

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Appendices

Appendix A: RAPSTA Teacher Questionnaire

Appendix B: RAPSTA School Administrator Questionnaire

Appendix A

Retention and Attrition of Pacific School Teachers and Administrators (RAPSTA) Study

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Teacher Questionnaire

Created by the

Research and Development Cadre

American Samoa Department of Education
Commonwealth of the Northern Mariana Islands Public School System
Federated States of Micronesia National Department of Education
Guam Department of Education
Chuuk State Department of Education
Hawai'i State Department of Education
Kosrae State Department of Education
Pohnpei State Department of Education
Yap State Department of Education
Republic of the Marshall Islands Ministry of Education
Republic of Palau Ministry of Education
with the assistance of
Pacific Resources for Education and Learning

Retention and Attrition of Pacific School Teachers and Administrators (RAPSTA) Study
Teacher Questionnaire

SECTION 1

The purpose of this section is to understand what factors cause teachers to be away from school. All responses will be kept anonymous. Please complete this section by filling in the requested information. Please print your responses and check (✓) boxes (☐) as appropriate. Remember, DO NOT PUT YOUR NAME ON THIS QUESTIONNAIRE. It is important that all responses be anonymous.

School: _____ **Date**: _____

Location: Am. Samoa ☐ Guam ☐ CNMI ☐ Hawaii ☐ RMI ☐
Pohnpei ☐ Chuuk ☐ Kosrae ☐ Yap ☐ Palau ☐

Gender: M ☐ F ☐ **Place of birth:** _____
(Entity or State or Country)

Ethnic heritage: _____
(Ethnicity of Parents)

Age:
15-19 ☐ 20-24 ☐ 25-29 ☐ 30-34 ☐ 35-39 ☐ 40-44 ☐
45-49 ☐ 50-54 ☐ 55-59 ☐ 60-64 ☐ 65 + ☐

Current marital status:
Never Married ☐ Married ☐ Separated ☐ Divorced ☐ Widowed ☐

Highest level of education attained:
High School Graduate ☐ Associate Degree ☐ Bachelor Degree ☐
Master Degree ☐ Other (specify) ☐

Major field of study: _____
(Examples: Elementary Education, Math, Science, Agriculture, etc.)

Current annual salary: $_____(per year)

Years of teaching experience:
1 - 4 ☐ 5 - 10 ☐ 11 - 14 ☐ 15 - 20 ☐ 21 or more ☐

	K	1	2	3	4	5	6	7	8	9	10	11	12
What grades do you currently teach? (check all that apply) —													
How many students do you teach? (put in number per grade level) —													

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For elementary teachers who teach in self-contained settings, please check the subject areas you are currently teaching.

✓	Subject areas you teach (put a ✓ in column on left)	✓	Subject areas you teach (put a ✓ in column on left)
	Language Arts/English		Art
	Language Arts/Vernacular		Music
	Math		Health
	Science		Physical Education
	Social Studies		Guidance
	Other (specify)		Other (specify)

For secondary teachers who teach in departmentalized settings, please check the subject area(s) and number of class periods you are currently teaching.

	Number of class periods you teach (put a ✓ in the appropriate columns)						
Subject area(s) you teach	1	2	3	4	5	6	7
Language Arts/English							
Language Arts/Vernacular							
Math							
Science							
Social Studies							
Vocational Education (specify)							
Business Education							
Computers							
Art							
Music							
Physical Education							
Other (specify)							

If you have had jobs other than teaching, please list them below.

Previous employment other than teaching	Number of years

Total number of instructional days you were away from school this year (SY '96 - '97):

None ☐ 1-5 ☐ 6-10 ☐ 11-15 ☐ 16-20 ☐ 20 + ☐

Write the number of days you were away from school in SY '96 -'97 for the reasons listed below.

Reason	Number of Days	Reason	Number of Days
funerals		working conditions	
birthdays		relationship with co-workers	
child care		stress	
transportation problem		meetings and workshops	
personal illness		administrative leave	
family member sick		educational leave	
family responsibilities (errands)		training leave	
community responsibilities		church activities	
storm, heavy rain or flood		maternity leave	
vacation		paternity leave	
lack of instructional materials		suspension	
relationship with supervisor		jury duty	
wedding		military training	
other (specify)		other (specify)	

SECTION 2

This section of the questionnaire contained directions and 22 items intended to measure teachers' stress and burnout. This section was modified and reproduced by special permission of the Publisher, Consulting Psychologists Press, Palo Alto, CA 94303 from ***Maslach Burnout Inventory—Educators Survey*** *by Christina Maslach, Susan E. Jackson, & Richard L. Schwab. Copyright 1986 by Consulting Psychologists Press, Inc. All rights reserved. Permission for reproduction of the instrument in this report was not granted.*

SECTION 3

The purpose of this section is to understand what makes teachers leave their jobs. Below are listed statements made about quitting a teaching job. Place a check (✓) in the column next to each statement that best reflects how much *you agree or disagree* with the statement. Please respond to all statements.

MAKE ONE ✓ MARK ON EACH LINE.

Statement	Strongly Disagree	Disagree	Agree	Strongly Agree
I might leave my current teaching job for a better teaching position within the next two years.				
I might leave teaching all together within the next two years.				
If I quit teaching, it would be because of . . .				
poor working conditions.				
no support from school administration.				
no support from central office administration.				
too much stress.				
poor relationships with parents.				
students' bad attitudes.				
my lack of control over school policies.				
poor benefits (health insurance, retirement, etc.).				
personal health problems.				
too many disagreements about how to teach.				
not enough school materials and supplies.				
low salaries.				
too many responsibilities.				
pressure from the community.				
retirement.				
promotion.				
poor relationship with other teachers.				

Thank you for your assistance. Please return this questionnaire to the large envelope which has been placed on one of the desks in the room.

Appendix B

Retention and Attrition of
Pacific School Teachers and Administrators
(RAPSTA) Study

School Administrator Questionnaire

Created by the

Research and Development Cadre

American Samoa Department of Education
Commonwealth of the Northern Mariana Islands Public School System
Federated States of Micronesia National Department of Education
Guam Department of Education
Chuuk State Department of Education
Hawai'i State Department of Education
Kosrae State Department of Education
Pohnpei State Department of Education
Yap State Department of Education
Republic of the Marshall Islands Ministry of Education
Republic of Palau Ministry of Education
with the assistance of
Pacific Resources for Education and Learning

PREL

Retention and Attrition of Pacific School Teachers and Administrators (RAPSTA) Study
School Administrator Questionnaire

SECTION 1

The purpose of this section is to understand what factors cause school administrators to be away from school. All responses will be kept anonymous. Please complete this section by filling in the requested information. Please print your responses and check (✓) boxes (☐) as appropriate. Remember, DO NOT PUT YOUR NAME ON THIS QUESTIONAIRE. It is important that all responses be anonymous.

Date: _____

Location: Am. Samoa ☐ Guam ☐ CNMI ☐ Hawaii ☐ RMI ☐
Pohnpei ☐ Chuuk ☐ Kosrae ☐ Yap ☐ Palau ☐

Gender: M ☐ F ☐ **Place of birth:** _____
(Entity or State or Country)

Ethnic heritage: _____
(Ethnicity of Parents)

Age:
15-19 ☐ 20-24 ☐ 25-29 ☐ 30-34 ☐ 35-39 ☐ 40-44 ☐
45-49 ☐ 50-54 ☐ 55-59 ☐ 60-64 ☐ 65 + ☐

Current marital status:
Never Married ☐ Married ☐ Separated ☐ Divorced ☐ Widowed ☐

Highest level of education attained:
High School Graduate ☐ Associate Degree ☐ Bachelor Degree ☐
Master Degree ☐ Other (specify) ☐

Major field(s) of study: _____
(Examples: School Administration, Curriculum & Instruction, Elementary Education, Math, etc.)

Current annual salary: $_____(per year)

Total school enrollment: _____

Students enrolled by grade:
What is the student enrollment at your school by grade?

K	1	2	3	4	5	6	7	8	9	10	11	12

Your current position:
principal ☐ vice-principal ☐ head teacher ☐
teaching principal ☐ teaching vice-principal ☐

In the space below, please describe your training in school administration.

Please indicate the number of years of teaching and administrative experience you have had.

	Number of years by level		
	Elem./Int. (K-8)	High Sch. (9-12)	College
teacher			
head teacher			
teaching department head			
teaching vice-principal			
vice-principal			
teaching principal			
principal			

If you are a teaching principal/teaching vice-principal, please check the subject area(s) and number of class periods you are currently teaching.

	Number of class periods you teach (put a ✓ in the appropriate columns)						
Subject area(s) you teach	1	2	3	4	5	6	7
Language Arts/English							
Language Arts/Vernacular							
Math							
Science							
Social Studies							
Vocational Education (specify)							
Business Education							
Computers							
Art							
Music							
Physical Education							
Other (specify)							

If you have had jobs other than teaching and/or school administration, please list them below.

Previous employment other than teaching or school administration	Number of years

Total number of days you were away from school in SY '96 -'97:

None ☐ 1-5 ☐ 6-10 ☐ 11-15 ☐ 16-20 ☐ 20 + ☐

Write the number of days you were away from school in SY '96 -'97 for the reasons listed below.

Reason	Number of Days	Reason	Number of Days
funerals		working conditions	
birthdays		relationship with co-workers	
child care		stress	
transportation problem		meetings and workshops	
personal illness		administrative leave	
family member sick		educational leave	
family responsibilities (errands)		training leave	
community responsibilities		church activities	
storm, heavy rain or flood		maternity leave	
vacation		paternity leave	
lack of instructional materials		suspension	
relationship with supervisor		jury duty	
wedding		military training	
other (specify)		other (specify)	

SECTION 2

This section of the questionnaire contained directions and 22 items intended to measure school administrators' stress and burnout. This section was modified and reproduced by special permission of the Publisher, Consulting Psychologists Press, Palo Alto, CA 94303 from ***Maslach Burnout Inventory—Human Services Survey*** *by Christina Maslach and Susan E. Jackson. Copyright 1986 by Consulting Psychologists Press, Inc. All rights reserved. Permission for reproduction of the instrument in this report was not granted.*

SECTION 3

The purpose of this section is to understand what makes school administrators leave their jobs. Below are listed statements made about quitting a school administrator's job. Place a check (✓) in the column next to each statement that best reflects how much *you agree or disagree* with the statement.

MAKE ONE ✓ MARK ON EACH LINE.

Statement	Strongly Disagree	Disagree	Agree	Strongly Agree
I might leave my current school administrator position for a better school administrator position within the next two years.				
I might leave my current school administrator position for a better central office administrator position within the next two years.				
I might leave educational administration all together within the next two years.				
If I quit being a school administrator, it would be because of . . .				
poor working conditions.				
no support from school staff.				
no support from central office administration.				
too much stress.				
poor relationships with parents.				
students' bad attitudes.				
my lack of control over school policies.				
poor benefits (health insurance, retirement, etc.).				
personal health problems.				
too many disagreements about how to run my school.				
not enough school materials and supplies.				
low salaries.				
too many responsibilities.				
pressure from the community.				
retirement.				
promotion.				
poor relationship with teachers.				
poor relationship with staff.				
political reasons.				

Thank you for your assistance. Please return this questionnaire to the large envelope which has been placed on one of the desks in the room.

PACIFIC RESOURCES FOR EDUCATION AND LEARNING

Ali'i Place, 25th Floor • 1099 Alakea Street
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Phone: (808) 533-6000
FAX: (808) 533-7599
E-mail: askprel@prel.hawaii.edu
WEBsite: http://www.prel.hawaii.edu

Saipan, Commonwealth of the Northern Mariana Islands
Bank of Hawai'i Building, Suite 203
Marina Heights Business Park
PPP 145 • Box 10000
Puerto Rico, Saipan MP 96950
Phone: (670) 323-6000 • FAX: (670) 323-7735

American Samoa
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Pago Pago, AS 96799
Phone: (684) 633-2709/1246
FAX: (684) 633-4240
E-mail: amisonel@prel.hawaii.edu

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Building 13-34, 2nd Floor • Seagull Avenue
Tiyan, Guam 96913
FAX: (671) 472-9750

Yap, Federated States of Micronesia
P.O. Box 985
Colonia, Yap FM 96943
Phone: (691) 350-4382 • FAX: (691) 350-4380
E-mail: legdesog@prel.hawaii.edu

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